QC ABSTRACT

NAME OF WORK: Construction of culverts in Kempegwoda ward no-01 of Yelahanka Sub division

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Precast (230mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	RCC(M20)	Compressive Strength(7days and 28days)	4 sets /31-50 cum	37.05	8	8

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2023-04-24-26 **Date: 06-01-23**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of culverts in Kempegwoda ward no-01 of Yelahanka Sub division
Agency	:	Sri. Sambashiva, No.04, 3rd Main Road, Chamundeshwari L/O Doddabommasandra, Vidyaranyapura, Bangalore-560097
Customer's Reference	:	BBMP/EE/YNK D/EPMT-12/W O/49/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-01-23
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 269:2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5):1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method. Clause 5 IS 4031 Part 3, (RA 2019) Determinaton of Soundness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	04-01-23
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	Fineness by dry sieving (%)	1.75	–
2	Finess by Air permeablity method (m^2/kg,Min)	281.4	225m^2/kg, Min
3	Density (gm/cc)	3.14	–
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	280 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements

Note:

The results pertain to the samples received and tested

All information furnished by Agency/Representative

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Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2023-04-24-26 **Date: 01-02-23**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of culverts in Kempegwoda ward no-01 of Yelahanka Sub division
Agency	:	Sri. Sambashiva, No:04, 3rd Main Road, Chamundeshwari L/O Doddabommasandra, Vidyaranyapura, Bangalore-560097
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/49/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-01-23
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 269:2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5):1988 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	04-01-23
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength			
Sl.No.	**Physical properties**	**Results**	**Requirement as per IS 269:2015**
1	3 Days	29.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	38.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	57.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2023-04-24-26** **Date: 06-01-23**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of culverts in Kempegwoda ward no-01 of Yelahanka Sub division
Agency	:	Sri. Sambashiva, No:04, 3rd Main Road, Chamundeshwari L/O Doddabommasandra, Vidyaranyapura, Bangalore-560097
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/49/2022-23
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	03-01-23
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	03-01-23

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	242	242	1.6	98.4	90-100
3	20 mm	5437	5679	37.9	62.1	30-70
4	10 mm	4339	10018	66.8	33.2	10-35
5	4.75 mm	4649	14667	97.8	2.2	0-5
6	Pan	333	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2023-04-24-26** **Date: 06-01-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.3	
3	Specific Gravity	2.65	–
4	Bulk Density(Loose) (Kg/l)	1.49	–
5	Bulk Density(Compacted) (Kg/l)	1.52	–
6	Water Absorption(%)	0.20	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2023-04-24-26** **Date: 05-01-23**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of culverts in Kempegwoda ward no-01 of Yelahanka Sub division
Agency	:	Sri. Sambashiva, No:04, 3rd Main Road, Chamundeshwari L/O Doddabommasandra, Vidyaranyapura, Bangalore-560097
Customer Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/49/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-01-23
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	03-01-23

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : **5000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	240	240	4.8	95.2	90-100
3	10 mm	2567	2807	56.1	43.9	25-55
4	4.75 mm	2030	4837	96.7	3.3	0-10
5	Pan	163	5000	100	0	-

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TEST REPORT OF FINE AGGREGATE

Date: 05-01-23

Lab ID	:	CP-2023-04-24-26
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of culverts in Kempegwoda ward no-01 of Yelahanka Sub division
Agency	:	Sri. Sambashiva, No:04, 3rd Main Road, Chamundeshwari L/O Doddabommasandra, Vidyaranyapura, Bangalore-560097
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/49/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-01-23
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	03-01-23
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	78	78	7.8	92.2	90-100	90-100	90-100	95-100
3	2.36 mm	65	143	14.3	85.7	60-95	75-100	85-100	95-100
4	1.18 mm	244	387	38.7	61.3	30-70	55-90	75-100	90-100
5	600 micron	215	602	60.2	39.8	15-34	35-59	60-79	80-100
6	300 micron	178	780	78.0	22.0	5-20	8-30	12-40	15-50
7	150 micron	141	921	92.1	7.9	0-10	0-10	0-10	0-15
8	Pan	79	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST RESULTS OF STEEL

Lab ID : CP-2023-04-24-26 **Date: 05-01-23**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Construction of culverts in Kempegwoda ward no-01 of Yelahanka Sub division

Agency : Sri. Sambashiva, No:04, 3rd Main Road, Chamundeshwari L/O Doddabommasandra, Vidyaranyapura, Bangalore-560097

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/49/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-01-23

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.

Date of test : 04-01-23

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-04-24-26** **Date: 13/01/2023**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of culverts in Kempegwoda ward no-01 of Yelahanka Sub division
Agency	:	Sri. Sambashiva, No:04, 3rd Main Road, Chamundeshwari L/O Doddabommasandra, Vidyaranyapura, Bangalore-560097
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/49/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-01-23
Customer ID	:	Culvert Bottom Raft Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	13/01/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Raft Concrete	M20	06/01/2023	13/01/2023	150.01 X 150.57 X 151.87	22588	9.078	418.2	18.5	18.6
2	Culvert Bottom Raft Concrete	M20	06/01/2023	13/01/2023	149.80 X 151.86 X 149.28	22748	8.355	419.0	18.4	
3	Culvert Bottom Raft Concrete	M20	06/01/2023	13/01/2023	149.41 X 149.92 X 150.90	22400	8.397	420.1	18.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 03/02/2023

Lab ID	:	CP-2023-04-24-26
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of culverts in Kempegwoda ward no-01 of Yelahanka Sub division
Agency	:	Sri. Sambashiva. No:04. 3rd Main Road. Chamundeshwari L/O Doddabommasandra. Vidyaranyapura. Bangalore-560097
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/49/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-01-23
Customer ID	:	Culvert Bottom Raft Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	03/02/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Raft Concrete	M20	06/01/2023	03/02/2023	149.27 X 151.11 X 150.93	22556	8.341	530.1	23.5	23.1
2	Culvert Bottom Raft Concrete	M20	06/01/2023	03/02/2023	149.27 X 149.25 X 149.61	22279	8.557	498.2	22.4	
3	Culvert Bottom Raft Concrete	M20	06/01/2023	03/02/2023	151.11 X 151.88 X 151.84	22951	8.970	535.5	23.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 13/01/2023

Lab ID	:	**CP-2023-04-24-26**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of culverts in Kempegwoda ward no-01 of Yelahanka Sub division
Agency	:	Sri. Sambashiva, No:04, 3rd Main Road, Chamundeshwari L/O Doddabommasandra, Vidyaranyapura, Bangalore-560097
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/49/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-01-23
Customer ID	:	Culvert Bottom Raft Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	13/01/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Culvert Bottom Raft Concrete	M20	06/01/2023	13/01/2023	150.34 X 150.63 X 151.23	22646	8.830	409.9	18.1	18.5
2	Culvert Bottom Raft Concrete	M20	06/01/2023	13/01/2023	150.87 X 149.74 X 150.54	22591	8.543	428.9	19.0	
3	Culvert Bottom Raft Concrete	M20	06/01/2023	13/01/2023	150.52 X 150.47 X 149.86	22649	8.275	419.8	18.5	

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WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

CIVIL PRO

AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017

4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-04-24-26** **Date: 17/01/2023**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Construction of culverts in Kempegwoda ward no-01 of Yelahanka Sub division

Agency : Sri. Sambashiva, No.04, 3rd Main Road, Chamundeshwari L/O Doddabommasandra, Vidyaranyapura, Bangalore-560097

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/49/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-01-23

Customer ID : Culvert Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/01/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M20	10/01/2023	17/01/2023	149.43 X 150.19 X 151.25	22443	8.701	417.2	18.6	18.3
2	Culvert Side Wall Concrete	M20	10/01/2023	17/01/2023	150.40 X 151.46 X 150.12	22779	9.050	414.3	18.2	
3	Culvert Side Wall Concrete	M20	10/01/2023	17/01/2023	150.62 X 151.01 X 151.77	22746	8.191	410.9	18.1	

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Agency/Representative

Any correction in the report will make this report invalid

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Samples will be disposed after 30 days from the date of issue of test certificate

A.E.E

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Date: 17/01/2023

Lab ID	:	CP-2023-04-24-26
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of culverts in Kempegwoda ward no-01 of Yelahanka Sub division
Agency	:	Sri. Sambashiva, No:04, 3rd Main Road, Chamundeshwari L/O Doddabommasandra, Vidyaranyapura, Bangalore-560097
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/49/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-01-23
Customer ID	:	Culvert Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	17/01/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M20	10/01/2023	17/01/2023	151.80 X 150.77 X 149.39	22887	8.970	423.4	18.5	18.2
2	Culvert Side Wall Concrete	M20	10/01/2023	17/01/2023	149.59 X 149.49 X 150.67	22363	8.451	404.6	18.1	
3	Culvert Side Wall Concrete	M20	10/01/2023	17/01/2023	150.38 X 151.29 X 149.67	22751	9.003	409.6	18.0	

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Format No. CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-04-24-26 **Date: 07/02/2023**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Construction of culverts in Kempegwoda ward no-01 of Yelahanka Sub division

Agency : Sri. Sambashiva, No:04, 3rd Main Road, Chamundeshwari L/O Doddabommasandra, Vidyaranyapura, Bangalore-560097

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/49/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-01-23

Customer ID : Culvert Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS. 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/02/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M20	10/01/2023	07/02/2023	150.35 X 149.05 X 149.73	22410	8.211	533.5	23.8	23.4
2	Culvert Side Wall Concrete	M20	10/01/2023	07/02/2023	150.33 X 149.30 X 149.88	22445	8.301	503.0	22.4	
3	Culvert Side Wall Concrete	M20	10/01/2023	07/02/2023	151.69 X 149.43 X 151.65	22667	8.110	542.3	23.9	

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